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PTO/SB/08A (10-96)
App. J for use through 10/31/99. OMB 0651-0031
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	10/701412
		Filing Date	Herewith
		First Named Inventor	Debra Reinhart
		Group Art Unit	
		Examiner Name	
Sheet 1 of 1	Attorney-Docket Number	KSC-12246	

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No.¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code² (if known)			
KM		3,986,953		Beaucaire	10/19/1976	
		5,266,213		Gillham	11/30/1993	
		5,615,974		Land	04/01/1997	
		5,641,425		McKedy	06/24/1997	
		5,746,937		McKedy	05/05/1998	
		5,789,649		Batchelor	08/04/1998	
		5,975,798		Liskowitz	11/02/1999	
		6,039,882		Wolfe	03/21/2000	
		6,190,092	B1	Miller	02/20/2001	
		6,207,114	B1	Quinn	03/27/2001	
		6,217,779	B1	Orth	04/17/2001	
		6,261,029	B1	Miller	07/17/2001	
		6,264,399	B1	Grisso	07/24/2001	
		6,280,533	B1	Hoppe	08/28/2001	

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No.¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Office³	Number⁴	Kind Code⁵ (if known)			

Examiner Signature	Katherine Mitchell	Date Considered	1/26/05
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PTO/SB/08A (08-03)

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet 1 of 2

Complete if Known

Application Number	10/701-412
Filing Date	10/31/2003
First Named Inventor	Debra Reinhart
Art Unit	Unknown
Examiner Name	Unknown
Attorney Docket Number	KSC-12246-2

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
KM		US- 5,868,939	02/09/1999	Oder et al.	
		US- 4,425,261	01/10/1984	Stenius et al.	
		US- 5,990,365	11/23/1999	Chang et al.	
		US- 6,121,371	09/19/2000	Matyjaszewski et al.	
		US- 6,423,531	07/23/2002	Hince et al.	
		US- 5,857,810	01/12/1999	Cantrell et al.	
		US- 5,587,157	12/24/1996	Cox et al.	
		US- 4,565,635	01/21/1986	Le Du et al.	
		US- 5,833,388	11/10/1998	Edwards et al.	
		US- 6,357,968	03/19/2002	Dwyer et al.	
		US- 6,398,960	06/04/2002	Borden et al.	
		US- 4,983,217	01/08/1991	Lopez Quintela et al	
		US- 5,278,106	01/11/1994	Nakashima et al.	
		US-			
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FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ³
		Country Code ² Number ⁴ Kind Code ⁵ (if known)				
KM		WO 97/09114	03/13/1997	Kizling et al.		

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SignatureDate
Considered

11/27/05

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INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

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Sheet 2 of 2

Application Number	10/701,412
Filing Date	10/31/2003
First Named Inventor	Debra Reinhart
Art Unit	Unknown
Examiner Name	Unknown
Attorney Docket Number	KSC-12246-2

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
Km		GEIGER ET AL., "The In Situ Treatment of DNAPL with Zero-Valent Iron Emulsions," found with Google.com	
Km		Environmental Technologies, Inc. "Permeable Reactive Barrier Update," May 2000, from www.eti.ca	
Km		Center for Groundwater Research, "Zero Valent Iron," from http://cgr.es.eoe.edu/iron/iron	
Km		LEE AND BORDEN, "Technology Application of Low Cost Emplacement of Insoluble Organic Substrate for Enhanced In Situ Reductive Dechlorination	
		of Halogenated Aliphatic Hydrocarbons," AFCEE, Dover Air Force Base (Delaware), (October 28, 1999).	

Examiner Signature	<i>Katherine Mitchell</i>	Date Considered	11/27/05
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